

Friday Nov. 15, 2019 7:30pm
Our Saviors Lutheran Church
IN THE SANCTUARY
1035 Carol Lane Lafayette
License Testing 6pm

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NOVEMBER 15 PROGRAM

THE ENIGMA MACHINE

By Ralph Simpson



Ralph Simpson of www.ciphermachines.com presents a fascinating overview of the German "Enigma" cipher machine and its historical significance and role in the outcome in WW2, especially the Allied efforts in breaking the code. The breaking of the Enigma code played an enormous role in the successful D-Day invasion of Europe. The success of cracking the Enigma was kept secret for 29 years after the end of WW2, despite 15,000 people working on the effort.

Ralph Simpson worked in the computer industry for 32 years, at IBM and Cisco Systems. He is now retired and volunteers at a local history museum. He wrote a book on cipher history called, *Crypto Wars: 2000 Years of Cipher Evolution*. He is also an avid cipher machine collector. He is married with three grown children.

(text from the Computer History Museum website)



William Brinkman (license pending)
Linda Brinkman, KE6WWW
Aidan Devine (license pending)
Liam Devine (license pending)
Christopher Devine, KM6KMU
Susan Evans, KJ6PAY
Hugh Henderson, KI6BDY
Beth Ludwig, KN6EMR
Charles MacNulty, KN6CWJ
Connor Stephens, KK6HJI

If you hear any of these new members on the air, please welcome them to our club.

— Tom Deeble, KA6SIP



When you purchase at Amazon dot com smile, a portion of your purchase is donated to our club.

Go to:

<https://smile.amazon.com/ch/23-7072059>

ALL MEMBERS ARE INVITED TO JOIN THE CLUB E-MAIL GROUP.
DOWNLOAD FILES, INCLUDING *THE CARRIER* IN **FULL COLOR** AS WELL AS SHARE INFORMATION WITH THE MEMBERSHIP AT:

<https://groups.io/g/MDARC>

(the Yahoo group was abolished)

Mount Diablo Amateur Radio Club W6CX
P.O. Box 23222 Pleasant Hill, CA 94523
(925) 288-1730

The Carrier is a monthly publication of the Mount Diablo Amateur Radio Club (MDARC). It is the policy of the editor to publish all material submitted by the membership provided such material is in good taste, relevant to amateur radio and of interest to MDARC members, and provided space is available.

President - Larry Bradley, KK6QPE
Vice President - Ed Morales, KJ6KYT
Secretary - Larry Loomer, KI6LNB
Treasurer - Cathi Walton, K2CJW
Emergency Coordinator - Ron Bunch, W4FEK

Directors At Large

Trevor Hall, WA6JAU Dave Piersall, N6ORB
John Primus, AF6RJ Mike Warren, W6MEW

Membership Chair - Tom Deeble, KA6SIP
mdarcmembership@mdarc.org

PACIFICON 2019

Co-Chairs: Misa Siemons, KJ6BUE,
Vicki Zumwalt, N6KLS, Julie Mah, WJ8MAE

Registration: Debbie Deeble, KN6DOM

Treasurer: Jim Siemons, W6LK

Secretary: Cathi Walton, K2CJW

COMMITTEE CHAIRS AND COORDINATORS

Annual Auction - Jim Siemons, W6LK
Communications Trailer - Mike Warren, W6MEW
Communications Van MDARC-1 - Jim Tittle, K6SOE
Digital Media - Mike Patterson, N6JGA
Education & Training - John Primus, AF6RJ
Field Day - Larry Loomer, KI6LNB
Good & Welfare - Diana Sage, KA6TZU
Holiday Dinner - Misa Siemons, KJ6BUE
License Testing - Larry Loomer, KI6LNB
Outreach - Dick Wade, WM6G
Public Service - Klaus Berkner, K6KHB
Refreshments - Elizabeth Styles, KG6HLV
Repeater Trustee W6LGW - Dick Brown, KT6X
Repeater Trustee W6CX - Jim Tittle, K6SOE
Technical Committee - Jim Siemons, W6LK

***The Carrier* Newsletter**

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Amateur Television Help and Information:

Fred Coe, WB6ASU wb6asu@icloud.com

President's Message

November 2019

MDARC Family,

I am writing this shortly after Halloween so I still have this fresh on my mind. Don't know about your neighborhood, but our's in the Tree Haven subdivision affectionally known as "the Fruit Bowl" in Concord, gets relatively few trick or treaters. Even so, I thought it would still be an opportunity to acquaint and even spark an interest with these young people and their parents to amateur radio. So I thought what better way than to set up a portable station on my driveway adjacent to the road and by adding some lighted safety cones, LED candles and of course, the required bowl of candy, then I was all set.....or nearly so. The final piece was to make it possible for those who were interested to actually key up the mic and speak to somebody. And that somebody was Steve Toquinto KB6HOH in Novato on the MARS repeaters who offered to be available for such a contact. Now I cannot say that there were gobs (hmmmm "goblins") of people taking me up on the offer, but we did have three young ladies who gave out a Happy Halloween shout out to much of Marin County and Steve answered back wishing them a safe evening. Hopefully they saw the "magic" of ham radio.



Wasn't Pacificon a fun time! It always is a great event and a special thanks to the great 2019 Pacificon Committee co-chaired this year by Misa Siemons KJ6BU, Vicki Zumwalt N6KLS, and Julie Mah WJ8MAH.

I don't know about you, but I did make some purchases to continue making go-boxes, at least one LiFePO battery, and an Anytone DMR/analog HT. Hope you were there at the General Membership Meeting on Friday night to hear the very informative and somewhat scary presentation by Alan Thompson W6WN on the *Camp Fire: Phones, Fire, and Failure*. I've heard nothing but good reports on this presentation and we are hoping to have Alan come back and speak at a future General Membership Meeting because what he had to say is well worth hearing again.

This edition of the Carrier includes the candidates for the Club leadership positions, however, you can still nominate candidates for these positions by contacting a member from the Election Committee or from the floor at our November 15th General Membership Meeting.

Excerpt from our By-Laws

Section 3. NOMINATIONS

Nominations in all forms to shall be presented at the September meeting. Any member in good standing with a United States Amateur Radio license may be proposed for nomination from the floor at the September, October and November meetings. The names of those nominated prior to the publication deadline shall be published in the October and November Club newsletters.

Section 4. BALLOTING

A ballot shall be provided to each member eligible to vote at least two weeks prior to the November meeting, by postal mail or electronically. If electronically, an option to print a paper ballot shall also be provided. Members that requested postal mail delivery of the Club's newsletter and directory shall be sent a ballot by postal mail. Ballots shall also be made available for voting at the November meeting.

At each member's option, completed ballots may be submitted by:

- (a) postal mail, with receipt required at the address on the ballot no later than two days before the November meeting;*
- (b) electronically, such as by email or via an application on the internet (if made available), with submission made no later than two days before the November meeting; or*
- (c) in person at the November meeting.*



Election Committee

Member	Contact email
Dave Piersall N6ORB (Chairperson)	dfp@pacbell.net
Dick Wade WM6G	dickwade146@gmail.com
Terry Buxton KK6KGX	marbux@sbcglobal.net

I won't see you at the November General Membership Meeting because I will be making good on a long-delayed visit to my youngest daughter and her husband in Washington and then a visit with my dad and brother in Oregon.

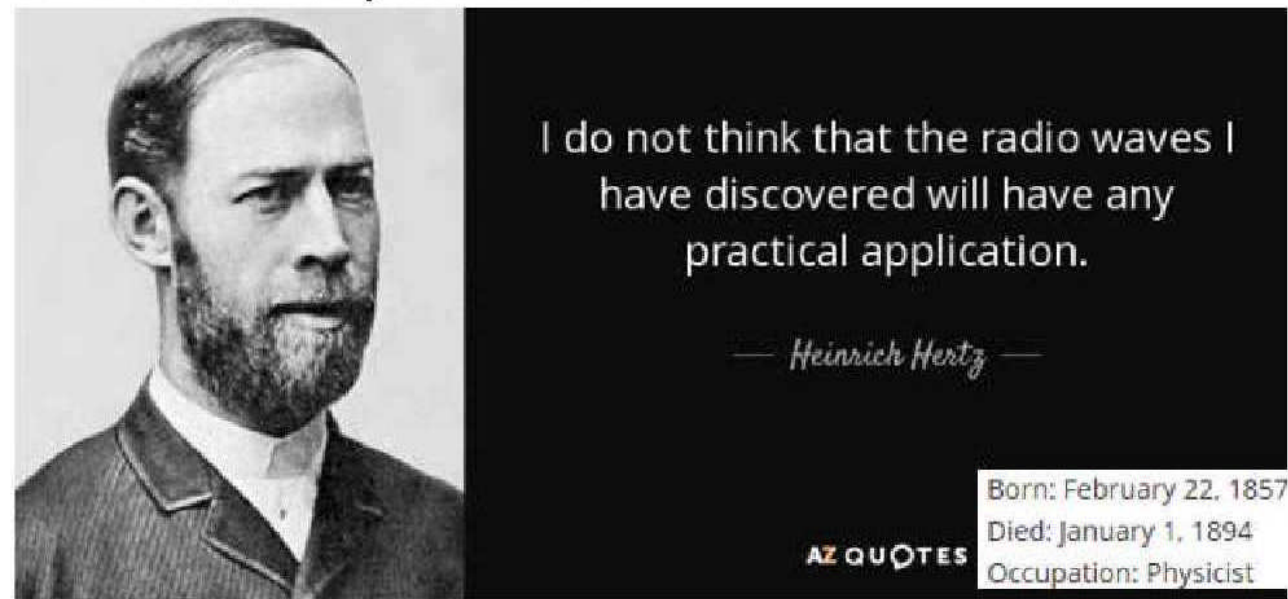
Carol and I wish you all a Happy Thanksgiving and I hope to see you at the Holiday Banquet on December 7th. Make your reservations soon.

Want some “live action” opportunities to hone your getting-on-the-air public service skills?
Then give the 2 Meter Critical Mass a try...

<http://2metercriticalmass.com/>

For Marin County: 3rd Sunday of each month; 10-Noon; Marin County Civic Center Lagoon, SE corner near the fountain. Civic Center Drive and Armory Road—park in the Jury Parking lot there <http://2metercriticalmass.com/northbay-2mcm/>

If Heinrich Hertz only knew.....



Citation:

Heinrich Hertz. (n.d.). AZQuotes.com. Retrieved November 03, 2019, from AZQuotes.com Web site
https://www.azquotes.com/author/22801-Heinrich_Hertz

“The greatest motivational act one person can do for another is to listen.” Roy E. Moody

73

Larry Bradley KK6QPE

11/03/2019



2020 Club Officer Nominees

President: Larry Bradley, KK6QPE

Vice President: Ed Morales, KJ6KYT

Treasurer: Cathy Walton, K2CJW

Secretary: Larry Loomer, KI6LNB

Emergency Coordinator:

Ron Bunch, W4FEK

Directors at Large (two positions):

Eric Ferguson, KA6USJ

Trevor Hall, WA6JAU

Roger Hooten, W6UZ



The election of the 2020 MDARC club officers is in progress. Members with an e-mail address should have received an email to vote. If not please contact Tom Deeble at ka6sip@aol.com.

Online Voting must be done no later than Wednesday November 13, 2019.

Voting may also be done at the our monthly meeting on Friday November 15, 2019.



**You are invited to attend the
2019 MDARC-HOLIDAY PARTY &
AWARDS DINNER**

**Saturday, December 7th
Zio Fraedo's Restaurant
611 Gregory Lane, Pleasant Hill
(925) 933-9091**

**5:00 PM Appetizers & No-Host Bar
6:00 PM ~ Dinner
7:00 PM ~ Awards Presentation
10:00 PM ~ Evening Ends**

Entrée Choices:

Steak

Salmon

Pasta Vegetarian

Chicken Toscana

Chicken breasts, fresh mushrooms, artichoke hearts, white sauce

**On-line / over-the-phone/ email registrations or
cancellations, must be received no later than
8pm - Sunday, December 1st. After that
time/date, NO Registrations will be accepted and
NO REFUNDS will be given.**

www.mdarc.org (Link under Club Announcements-Holiday Banquet)

Questions, contact Misa Siemons at (925) 876-6611

**MDARC 2019 HOLIDAY PARTY AT
ZIO FRAEDO'S, Saturday - December 7th
MAIL-IN REGISTRATION FORM**

First Name

Last Name

Guest First Name

Guest Last Name

Guest First Name

Guest Last Name

Guest First Name

Guest Last Name



Entrée Choice	Quantity	Price Each	SUBTOTAL:
STEAK	_____	x \$ 50.00	\$ _____
SALMON	_____	x \$ 50.00	\$ _____
PASTA	_____	x \$ 50.00	\$ _____
CHICKEN	_____	x \$ 50.00	\$ _____
TOTAL DUE:			\$ _____

Any Food Allergies? _____

Make check payable to: MDARC

**Holiday form & check payment must be RECEIVED by
Saturday, November 30, 2019**

Mail to:

**Misa Siemons/MDARC
2308 Lomond Lane
Walnut Creek, CA 94598**



DIABLO SUMMIT STOMP

By Larry Loomer, KI6LNB

On the morning of November 2, 2019, 17 hams and one YL met at a small parking lot in the Castle Rock Recreational Area, located in Walnut Creek, CA, at 0630 hours, for the purpose of being briefed on the plans for the upcoming day's assignment to support the Mt. Diablo Summit Stomp 5 kilometer (K), 10K, 1/2 Marathon (M) and 30K races on the slopes of Mt. Diablo.

Present for the briefing were: Terry KK6KGX, Barb KJ6BAW, David KK6KFQ, Tom KE6DQV, Tim KA6TIM, Martha KJ6VQZ, Sean KM6NGN, Diane K4IWM, Jeff KJ6RHF, Mike W6MEW, Marilyn W6MEW-YL, Christel KN6EVY, Klaus K6KHB, Eoin KK6Q, Frank KF6FIO, John KS6M, Larry KK6QPE and Larry KI6LNB.

Talk-in was on the W6CX repeater, and that was the primary frequency for the event. An alternate simplex frequency was specified on the communication plan, but was not used. The Echolink and IRLP programs on the repeater were turned off for the day to minimize outside interference with the Summit Stomp Net traffic. The Ham Radio Communication plan had been created by Net Control and emailed to each ham in advance of the briefing.

Maps of the four race courses were copied from the race website as needed by the hams, graphically showing the assignment locations. Further, the results of a survey, made the previous day by Net Control, of the ham locations that were accessible by car, made suggestions for finding the assignment location, and a place to park near the assignment, on the two lane road that was the route that the hams took to find their places on the mountain. The descriptions were successful and accurate. These descriptions were emailed to each ham as well, in advance of the briefing.



(Brazen Racing photo)

Souvenir event tee-shirts, which were ordered by size in advance, were passed out to the hams before departing to their respective assignment locations. As the hams deployed to their locations on the mountain, the words of the lead ham rang in their ears, "Stay safe and have fun."

The morning started with a radio roll call of all of the hams, to confirm that they were in their proper locations on the mountain and that they could communicate with Net Control from their assigned positions.

The race management requested that the hams track the 30K runners by bib number at the Summit Aid Station and at the Helipad Aid Station. Papers were provided to the hams for tracking the bib numbers. Also requested was the reporting of the progress of the first three runners' bib numbers on the 30K course. Further, we were asked to track the last five bib numbers in that same race.

Marilyn Warren, wife of Mike Warren, W6MEW, and Christel Jones, KN6EVY at amateur radio station "horseshoe" along the race route. (W6MEW photo)



Race management also provided information about the color of the bibs for each race. The 30K racers had green bibs. The 1/2 M bibs were red. Blue bibs were worn by the 10K racers and the 5K runners had yellow bibs. Tracking chips were pasted on the back of each bib to track each runner electronically.

The first race began with a toot of the air horn, at 0745 hours; this was the Early Start race for those racers who preferred to take the 30K or 1/2M courses at more leisurely pace - not a run but a nice brisk walk. These "racers" received a "finisher" medal, but were not counted for the prizes by age group. Their bibs had a "hiker" sticker on them. Next, the 30K racers began their journey at 0815 hours. These were the individuals who had been seriously training for an event such as this, with elevation gain and uneven running surfaces.

The Half Marathon Runners left the starting line at 0830 hours. These were the runners who also had been seriously training, but did not yet have the distance running capability of the 30K runners. The 10K runners were turned loose on the trail at 0900 hours. These runners were serious about their sport, but had not yet worked up the stamina to compete in the longer, more difficult events. The last group to descend upon the trails was the 5K group. This was either a fun run for persons or families that were getting into the sport of running together, or an introduction to competitive running for beginners.

The 5K group began to appear at the finish line on their return run. Soon afterward, the 10K runners were finishing their races as well. The top of Mt. Diablo was surprisingly warm, a great difference from the cool, shady temperature at the Net Control position and at other positions at the bottom of the mountain. When the 30K sweep appeared on the course, the ham stations began reporting to Net Control the progress of the sweep person. The progress of the last participant was sequentially reported to Net Control by the radio operators.

As it turned out, the last runners in the 30K race were spread out well enough that there was no need to track the last runners' bib numbers. They stayed in order for the last half of their time on the course. In that case, only the bib number of the last participant was tracked. When the last participant had crossed the Finish Line, the race management reported that all of the race participants were accounted for, with the help of the ham radio group radioing in drops from the races and race changes made by the runners.

Upon receiving that good news, Net Control dismissed, with thanks, the remaining hams that were still at their assignments, and wished each ham a safe trip home.

The hams were issued an invitation by the race organizer to participate in next year's event on the mountain. Net Control accepted the invitation on behalf of all of the hams that participated this year. We will be back next year for sure.

Rolling News

**MDARC-1 at PACIFICON
October 18, 2019**

PACIFICON with the W6CX Communications Van MDARC-1 By Jim Tittle, K6SOE

Thanks to Walter, KH7IZ, for a ride from PACIFICON to my home QTH on Thursday before PACIFICON, after I dropped off MDARC-1.

Setup on Friday October 18, 2019 went smoothly and only took me a couple of hours to get everything set up from MDARC-1 to the PACIFICON table.

I was pleasantly surprised when I could get into the ATV repeater without having to raise the mast on the truck -- one more thing not to worry about! This is because Ron, N6GKJ, and I made a visit to the repeater site and installed another preamplifier and window filter on the main repeater input.

The next morning brought out a plethora of attendees including Fred, WB6ASU, via the repeater, a fan favorite. Many thanks to Joel, KD6W, for bringing out his cameras and switch gear on Saturday. My other help on Saturday was from Ron, N6GKJ, (shown in photo at left), Stan, NJ6E, and Bob, WB6KWT, for answering questions all day.

(N4DLA photos)

PACIFICON 2019

ARRL Pacific Division Ham Radio Convention
Produced by the Mount Diablo Amateur Radio Club



LEFT: ARRL President Rick Roderick, K5UR, speaks with a visitor to the ARRL booth on October 19.

BELOW: The exhibit hall hosted a variety of equipment vendors.

(N4DLA photos)



Gordon West, WB6NOA, (right) stopped by the Elecraft booth in the exhibit hall on October 18 and visited with Bob Wolbert, K6XX (left).



On October 19, Chris Hoover, AI6KG, (seated) explains amateur radio band frequency allocations to the scouts at W1AW/6, the PACIFICON HF station provided by the Palo Alto Amateur Radio Association (PAARA)



The flea market on Sunday morning October 20 (above) brought out the sellers and buyers. One wonders what equipment these tubes are from (right).



BOARD OF DIRECTORS MEETING MINUTES

Black Bear Diner, Walnut Creek, CA October 7, 2019

Attendees: Larry Bradley KK6QPE, Ed Morales KJ6KYT, Larry Loomer KI6LNB, Cathi Walton K2CJW, Ron Bunch W4FEK, David Piersall N6ORB, Mike Warren W6MEW, John Primus AF6RJ, Mike Patterson N6JGA, Eric Ferguson KA6USJ, Rich Lueck K6REL, and Marilyn Warren W6MEW-YL.

7:00 PM: The meeting was called to order by President Larry B. Introductions were made around the table. Minutes of the last meeting were approved. The President passed out the agenda. Two items were deleted from the old business. One item was added to the new business. The agenda was reviewed and approved.

President: No report.

Vice President: No report.

Secretary: No Report.

Treasurer: Cathi Walton K2CJW, reported that the additions to the budget report for September were routine expenses. The changes to the figures on the budget sheet were discussed. Tom Nasso sent in the documentation for the issuance of the \$1000 check.

Education: We have had an average of 8 students and 10.3 Elmers at the Technician classes. The GOTA HT classes are coming up next. There will be a team meeting on November 7, 2019.

Emergency Communications: No new developments.

Pacificon: The Antenna Forum sales are brisk. The banquet will have two speakers, including the young ham of the year. There are as many or more vendors as last year. Every booth is filled. We have more non-profits that we have space for.

Digital Media: The Christmas Banquet has been moved from Sunday, December 8, to Saturday, December 7.

Outreach: Not present.

Technical: They are working on getting the new routers. All systems are go. Three hams went to North Peak and worked on the feeder line replacement. There is an APRS signal pinging on the 2 meter repeater. They are attempting to locate the source. It comes on during the commute hours.

Vehicle: Not present. The Marin Club will send a vehicle check list to Jim Tittle.

Trailer: No report.

Field Day: No report.

License Testing: No report.

Public Service: Not present

Membership: Not present

Election: All officer positions have candidates. The president stated that we need more people to be in leadership positions.

Unfinished Business:

1. Repeater Rebuilding Project: A confirming invoice was received from the person to whom we sent the \$1000.
2. Membership Survey: Ed Morales KJ6KYT, reported that most people come to the meetings for the presentations. Ed will do one more round of evaluations.
3. The Repeater Operating Policy: David Otey (Hospital Net) prefers to use the repeater because of its wide range. The simplex sessions of the Hospital Net are just experiments. We should use a "Light hand on the Tiller" when apportioning the use of the repeater. If we (the Board) have a prioritization, we should write it down. Jim Tittle K6SOE, is the repeater trustee.

A motion was passed to add the following paragraph to the Repeater Policy Document, Section 5, Net Oversight on MDARC Systems, as Paragraph "e":

[The Emergency Communications Coordinator's Responsibilities include:] Developing a group of qualified emergency Tech Committee net control operators to serve in the event that response to a regional disaster or other major emergency requires the use of MDARC's repeater system(s). At least one such operator shall be available at all times during the response to take control of the repeater's operation should access, congestion and/or contention become an issue. In that event, MDARC's repeater control shall decide all issues of priority access, length of use, etc., if and as needed.

4. Written Comm. Van policy: No action.
5. Roger Hooten W6UZ, agreed to take some of the Membership Coordinator workload.
6. This item, the hands on, make it class, has been removed from the Old Business list at this time.
7. Larry Bradley KK6QPE, and Jim Siemons W6LK, will get together after Pacificon, to set up a work party for rearranging the storage locker.
8. This item, the one-time membership cost reduction, has been removed from the Old Business list at this time.
9. It was moved by the Treasurer, seconded, and approved by the board, to change the banking institution for both MDARC and MDARC/Pacificon to Provident Credit Union by the end of December 2019. All MDARC accounts at Bank of America will be closed.

MDARC will have one membership with one checking account and two savings accounts, all linked. Signers shall be the MDARC Treasurer, President and Vice President. Current incumbents are Cathi Walton, Larry Bradley and Ed Morales respectively.

MDARC/Pacificon will have a separate membership, same EIN, with one savings account and one checking account (not linked to the main /MDARC accounts). Signers shall be the Pacificon Treasurer, Pacificon Chair and a chair-designated third Pacificon Committee member. Current incumbents are Jim Siemons, Misa Siemons and Mike Patterson respectively.

10. The establishment of information/learning tables at the General Membership Meetings is on hold until this can be discussed by the Board. We will invite the membership to propose an interest group that they would like to lead. These will be small groups exchanging thoughts and ideas. A general Elmering table to help with questions and programming was proposed. Programming will be announced at the November meeting and accomplished at the January meeting.

11. After an initial discussion at the November Board meeting, Cathi Walton K2CJW, will send out a request for input for the 2020 MDARC Budget. This information should be sent to Cathi for discussion at the December board meeting, as a first cut for the budget. This information will be collected and discussed at the January 6, 2020, Board meeting with the goal of publishing an approved budget in the January *Carrier*. Per the Bylaws, the budget must be published no later than the February *Carrier*.

New Business

1. The voting for MDARC officers will be held at the November Membership Meeting. Tom will be sending out the paper ballots. Some paper ballots will be available at the November Membership Meeting. Electronic voting will be done on Constant Contact.
2. The Salvation Army does not need ham radio because they have satellite phones. Lauren has not been involved with the Salvation Army for six months because of his health. The people that run the SATERN Net will get together and come up with a new name for the net. We want to keep the participants from the SATERN Net active under a new name.

9:40 PM: The meeting was adjourned.

Respectfully submitted, Larry Loomer, KI6LNB, MDARC Secretary

MEMBERS HELP PAGE

I need some assistance mounting a wire antenna on my redwood tree in my backyard.

I have two types of Antennas a Buckmaster OCFD and Tenadyne folded-terminated dipole.

I'll provide all the necessary tools cable terminations, stripping tool, crimpers, ladders etc.

After completion I will host a dinner at my home in the evening.

Dale McIntyre AD6HD is my neighbor down the block and he said he could bring his cable shooting gun, but told me it is better with a bow and arrow, which I have but never used one for such installs.

Please let me or anyone you know in the MDARC club who can help me with the install on a weekend.

Thank you very much!

Arvind Mallya
KI6MOI

2020 Ham Radio Licensing Course Registration Available Now!

Mt. Diablo Amateur Radio Club

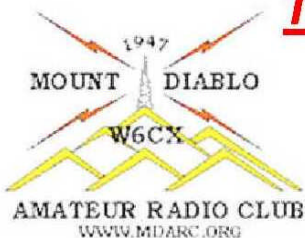
will be holding an 8 week course where you can learn everything you need to earn your 1st level Technician Class

The Technician Class license is your entry to the world-wide excitement of Amateur Radio and Emergency Communications... and now you do

NOT need to learn Morse code!

The only Technician Class for 2020 begins on...

Thursday January 9th, 2020



ARRL The national association for
AMATEUR RADIO

First Class starts at 6:30 the rest are from 7-9pm

Trinity Lutheran Church, 2317 Buena Vista Ave.

Walnut Creek, CA 94597

Registration fee of \$10 paid **online** is required. We use the current ARRL Textbooks – Text book details are part of the registration process.

Follow up training and License testing will also be available.

Complete class calendar and registration link:

<http://www.mdarc.org/activities/education/Classes>

(If you are new to Ham Radio it is suggested you wait to buy your radio until after you take the TECH license class as some CHEAP radios advertised as Ham radios are out of compliance with FCC rules.)

The auto response at **HamRadioClass@gmail.com** will answer more class questions.

If you have Non License questions email: info@mdarc.org

Morse code is **NOT** required for an Amateur Radio License.



*Thanks to our Uniformed Services Veterans for
Serving and Protecting the United States of America*

HAM RADIO OUTLET

14 STORE BUYING POWER!

ICOM



IC-7600 | All Mode Transceiver

- 100W HF/6m Transceiver, gen cov. receiver • Dual DSP 32 bit • Three roofing filters- 3, 6, 15kHz • 5.8 in WQVGA TFT display • Hi-res real time spectrum scope



IC-7200 | HF Transceiver

- 160-10M • 100W • Simple & tough with IF DSP • AGC Loop Management • Digital IF Filter • Digital Twin PBT • Digital Noise Reduction • Digital Noise Blanker • USB Port for PC Control



IC-7100 | All Mode Transceiver

- HF/50/144/430/440 MHz Multi-band, Multi-mode, IF DSP • D-STAR DV Mode (Digital Voice + Data) • Intuitive Touch Screen Interface • Built-in RTTY Functions



ID-5100A | VHF/UHF Dual Band Digital Transceiver

- Analog FM/D-Star DV Mode • SD Card Slot for Voice & Data Storage • 50W Output on VHF/UHF Bands • Integrated GPS Receiver • AM Airband Dualwatch • FM Analog/DV Repeater List Function

ID-51A | VHF/UHF Dual Band Transceiver

- 5/2.5/1.0/0.5/0.1W Output • RX: 0.52-1.71, 88-174, 380-479 MHz** • AM/FM/FM-N/WFM/DV • 1304 Alphanumeric Memory Chls • Integrated GPS • D-STAR Repeater Directory • IPX7 Submersible



KENWOOD



TS-590SG | HF/50MHz Transceiver

- Equipped with 500 Hz/2.7 kHz roofing filter as standard • ALC derived from TS-990S eliminating spike issues • Antenna output function (shared with DRV connector) • CW - morse code decoder function



TM-D710G | 2M/440 Dualband

- V+V/V+U/U+U operation • Built-in GPS • Built-in TNC for APRS & DX-Cluster operation • 50W 2M & UHF • 1,000 memories • Dual receive • Green or amber backlight colors • Latest APRS firmware w/new features • Sky Command II remote functions



TM-V71A | 2M/440 DualBand

- High RF output (50W) • Multiple Scan • Dual receive on same band (VxV, UxU) • Echolink® memory (auto dialer) • Echolink® Sysop mode for node terminal ops • Invertible front panel • Choice of green/amber for LCD panel • 104 code digital code squelch



TM-281A | 2 Mtr Mobile

- 65 Watt • 200 Memories • CTCSS/DCS • Mil-Std specs • Hi-quality audio

TH-F6A | 2M/220/440

- Dual channel receive • .1 - 1300 MHz (cell blocked) RX • FM, AM, SSB • 5W 2M/220/440 TX, FM • 435 Memories • Li-Ion Battery



YAESU
The radio



FT-991 | HF/50MHz/2M/440 Transceiver

- 160 M-440MHz - SSB/CW/FM/C4FM Digital/AM/RTTY/PSK • 100 W (2M/440: 50 Watts) • 3.5" TFT full-color touch panel operation • High speed spectrum scope • Roofing filters: 3kHz & 15kHz • 32-bit high speed floating point IF DSP



FTDX1200 | 100W HF + 6M Transceiver

- Triple Conversion Receiver With 32-bit Floating Point DSP • 40 MHz 1st IF with selectable 3 kHz, 6kHz & 15 kHz Roofing Filters • Optional FFT-1 Supports AF-FFT Scope, RTTY/PSK31 Encode/Decode, CW Decode/Auto Zero-In • Full Color 4.3" TFT Display



FT-450D | A100W HF + 6M Transceiver

- 100W HF/6M • Auto tuner built-in • DSP built-in • 500 memories • DNR, IF Notch, IF Shift



FTM-400DR | 2M/440 Mobile

- Color display-green, blue, orange, purple, gray • GPS/APRS • Packet 1200/9600 bd ready • Spectrum scope • Bluetooth • MicroSD slot • 500 memory per band

FT-60R | 2M/440 5W HT

- Wide receiver coverage • AM air band receive • 1000 memory channels w/alpha labels • Huge LCD display • Rugged die-cast, water resistant case • NOAA severe weather alert with alert scan



5 Ways to Shop!

- RETAIL LOCATIONS - Store hours 10:00AM - 5:30PM - Closed Sunday
- PHONE - Toll-free phone hours 9:30AM - 5:30PM
- FAX - All store locations
- ONLINE - WWW.HAMRADIO.COM
- MAIL - All store locations

ANAHEIM, CA
(800) 854-6046

OAKLAND, CA
(877) 892-1745

BURBANK, CA
(877) 892-1748

SAN DIEGO, CA
(877) 520-9623

NEW CASTLE, DE
(800) 644-4476

PORTLAND, OR
(800) 765-4267

DENVER, CO
(800) 444-9476

PHOENIX, AZ
(800) 559-7388

ATLANTA, GA
(800) 444-7927

WOODBIDGE, VA
(800) 444-4799

SALEM, NH
(800) 444-0047

PLANO, TX
(877) 455-8750

ONLINE STORE
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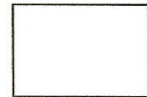
New Store!

Contact HRO for promotion details. Toll-free including Hawaii, Alaska and Canada. Call will be routed to the nearest store. All HRO 800-lines can assist you. If the first line you call is busy, you may call another. AZ, CA, CO, GA, VA residents add sales tax. Prices, specifications and descriptions subject to change without notice.



The Carrier

Newsletter of the Mt. Diablo Amateur Radio Club
P.O. Box 23222
Pleasant Hill, CA 94523
www.mdarc.org



FIRST CLASS

<https://www.facebook.com/mdarc.org>

W6CX Nets

M-F 5:42 am Morning Muster 147.060+ 224.780- 441.325+

M-F 6:10am Commuter Net 147.060+ 224.780- 441.325+

Monday 8:00 pm SATERN Net 147.060+

Tuesday 7:30 pm Fat City 10 meter USB/CW Net 28.420 MHz

Tuesday 8:00pm Digital Practice Net 147.060+ 224.781-441.325+

Wednesday 7:00 pm SKYWARN Net 147.060+

Thursday 7:30 pm MDARC Club Net 147.060+

Thursday 8:00 pm Amateur Television Net 147.060+

FM 147.060 MHz + / PL 100Hz -

224.780 MHz - / PL 77Hz 441.325 MHz + / PL 100Hz

EchoLink: W6CX-R /133896, IRLP: 3057

<https://www.broadcastify.com/listen/feed/25334>

D-STAR 145.000 offset plus 2.5 MHz

<https://w6cx.dstargateway.org/>

ATV Internet Stream: <http://w6cxatv.mdarc.org/>

Contra Costa County Emergency Communications Nets

Every Thursday

<http://www.coco-races.org/meetings/nets/>

6:35 pm HF Countywide 3.893 MHz LSB

6:45 pm West County 145.110-- (82.5 PL)

7:00 pm Central County 145.680 Simplex

7:00 pm East County 146.535 Simplex

7:00 pm South County 147.480 Simplex

7:20 pm Countywide 145.490-- (107.2 PL)

or 147.735-- (107.2 PL)

or 145.410-- (107.2 PL)

Concord Auxiliary Radio Emergency Service (CARES)

Wednesday 8:00pm 147.405 Simplex

Digital Amateur Television Repeater

Digital ATV Output: 1244.500

Digital ATV Inputs: 1292.500, 1273.0, 917.0, 430.0

Analog ATV Input: 1270.000 FM (PL 192.8)

November and December 2019 Club Calendar

Friday November 15, 2019	7:30pm	MDARC General Meeting - IN THE SANCTUARY Our Savior's Lutheran Church, 1035 Carol Lane, Lafayette
Monday December 2, 2019	7:00pm	MDARC Board of Directors Meeting - Black Bear Diner 700 Bancroft Road, Countrywood Shopping Center, Walnut Creek
Saturday December 7, 2019	8:00am	MDARC Technical Committee Meeting - Ygnacio Valley Library 261 Oak Grove Road, Walnut Creek
Saturday December 7, 2019	5:00pm	MDARC Holiday Party and Awards Dinner Zio Fredo's Restaurant, 611 Gregory Lane, Pleasant Hill